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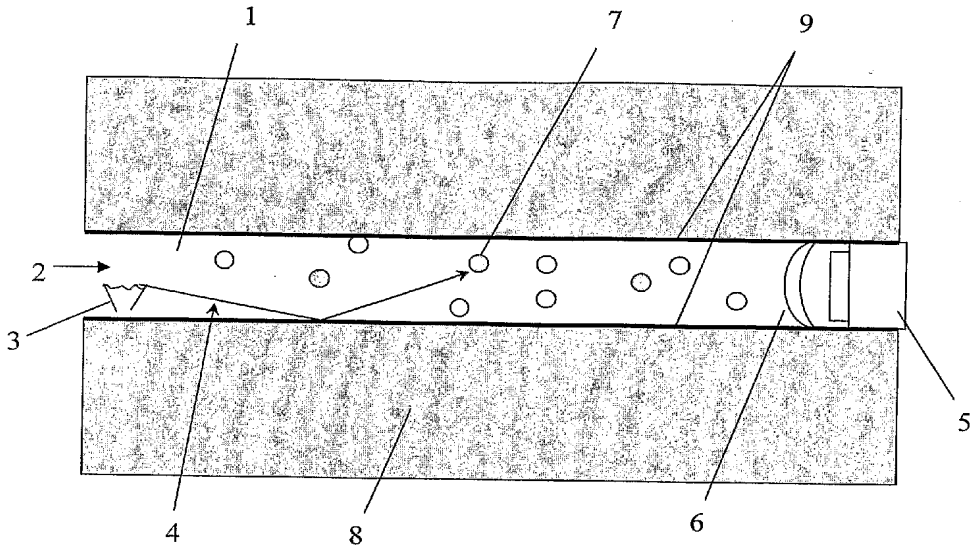
(54) **Title:** LIQUID OR GAS SENSOR AND METHOD



(57) **Abstract:** Fluid sensor containing a fluid cell (1) to enclose a volume of fluid (7), i.e. a gas or liquid, that is to be analysed and a method for producing such a fluid sensor. The fluid sensor comprises an electromagnetic energy source (3) arranged to transmit electromagnetic waves (4) into the fluid cell (1) and at least one detector (5) to detect electromagnetic waves passing through the fluid cell (1) and at least one opening (2) for the inlet/outlet of a fluid that is to be analysed. The fluid sensor also comprises a circuit board (8, 10, 11, 12, 13, 14, 15, 16) to evaluate the intensity of electromagnetic waves reaching said at least one detector (5) and/or to provide the circuitry for the electromagnetic energy source (3). At least part of the fluid cell (1) is incorporated into the substrate of the circuit board (8, 10, 11, 12, 13, 14, 15, 16).

WO 2005/059524 A1